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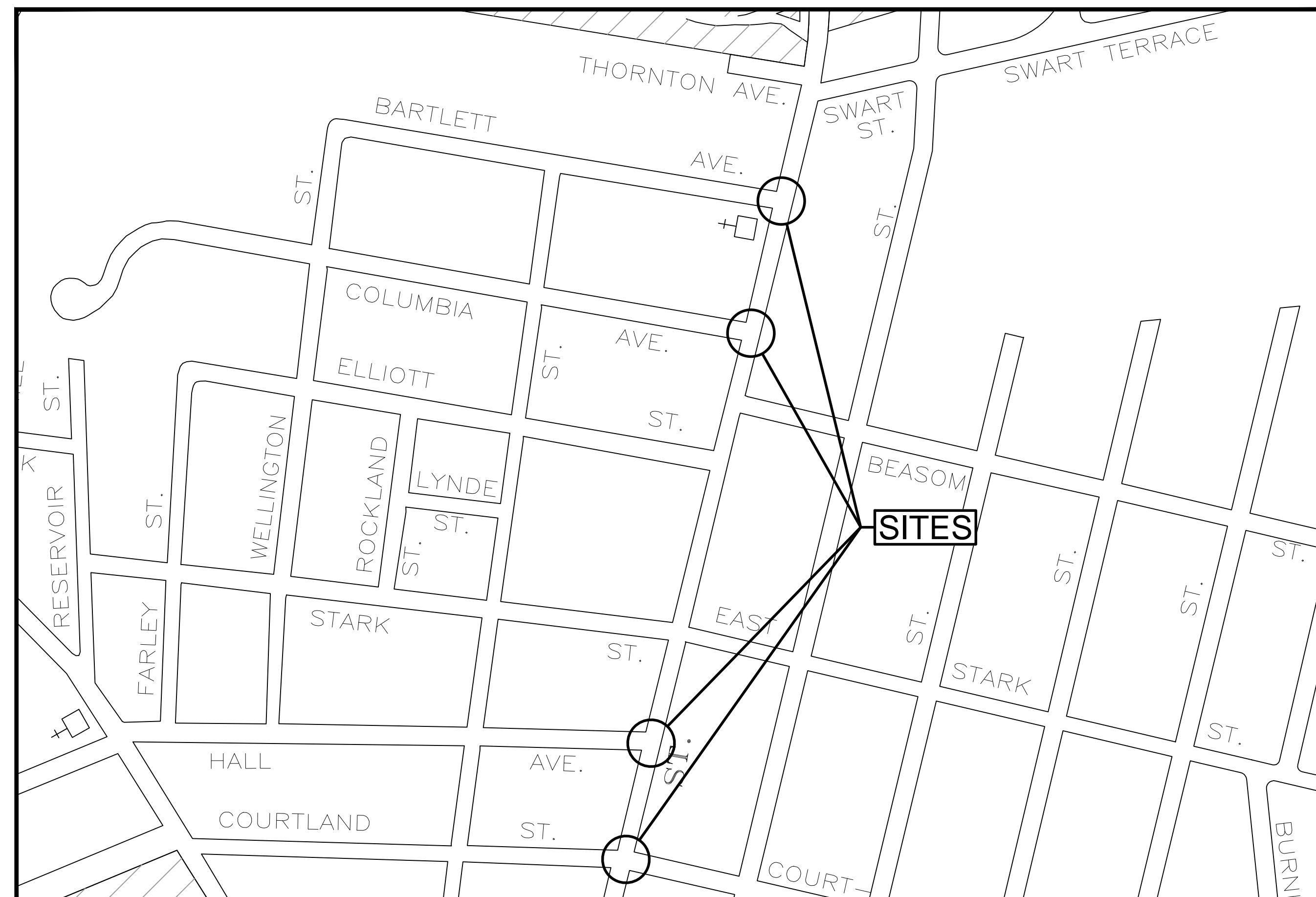
STEPHEN DOOKRAN, P.E.



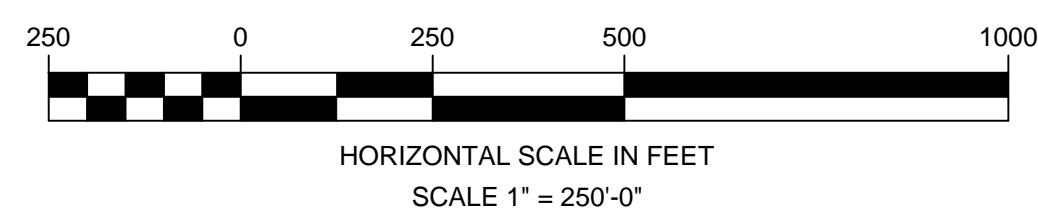
*CITY OF NASHUA, NEW HAMPSHIRE*

# CONCORD STREET CROSSWALK IMPROVEMENTS

JULY 2014



## OVERVIEW PLAN



## DRAWING INDEX

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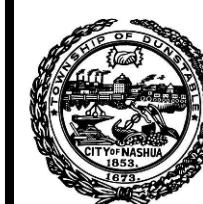
NO.	REVISION DESCRIPTION	DATE

PROJECT DESCRIPTION:

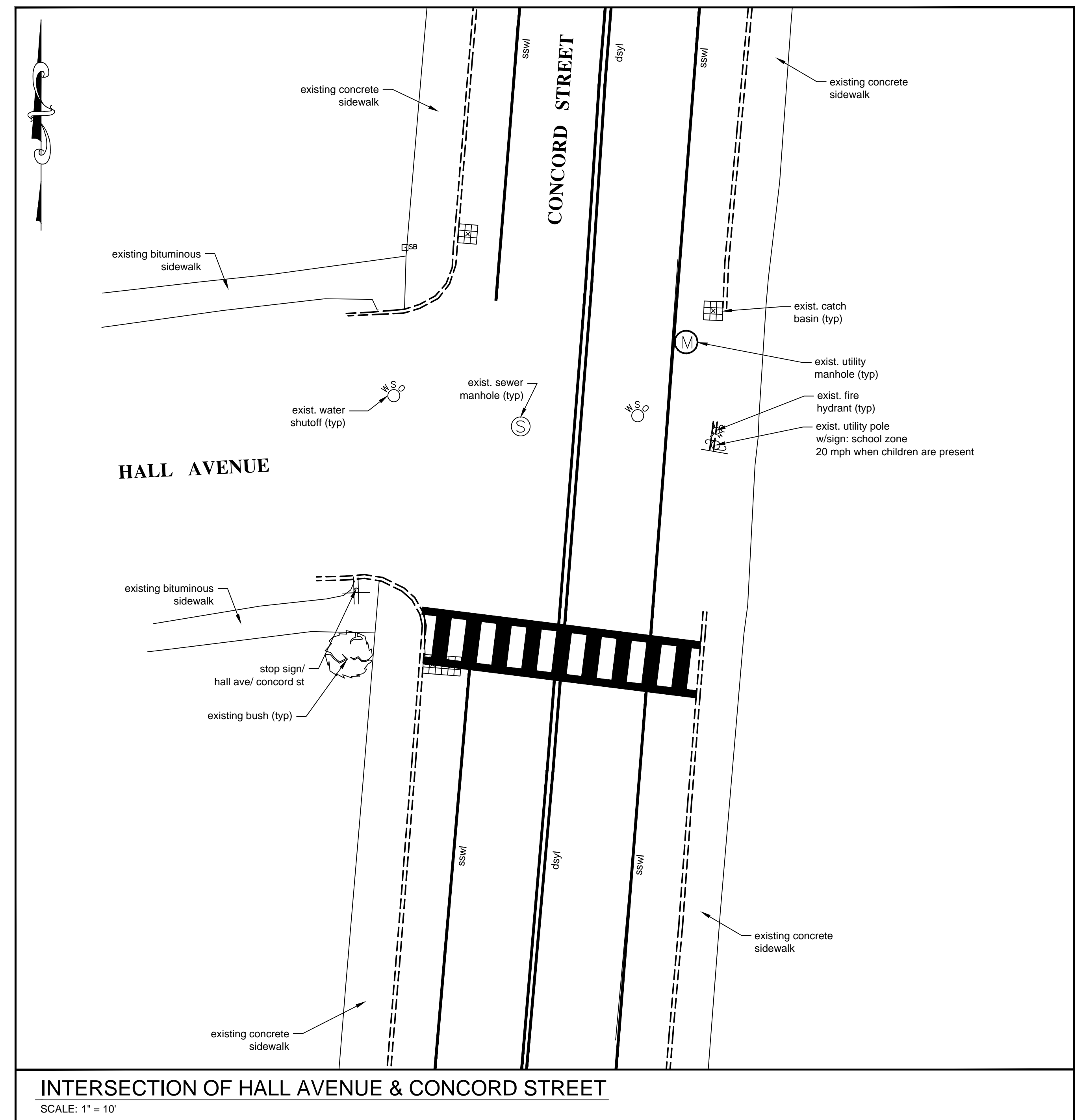
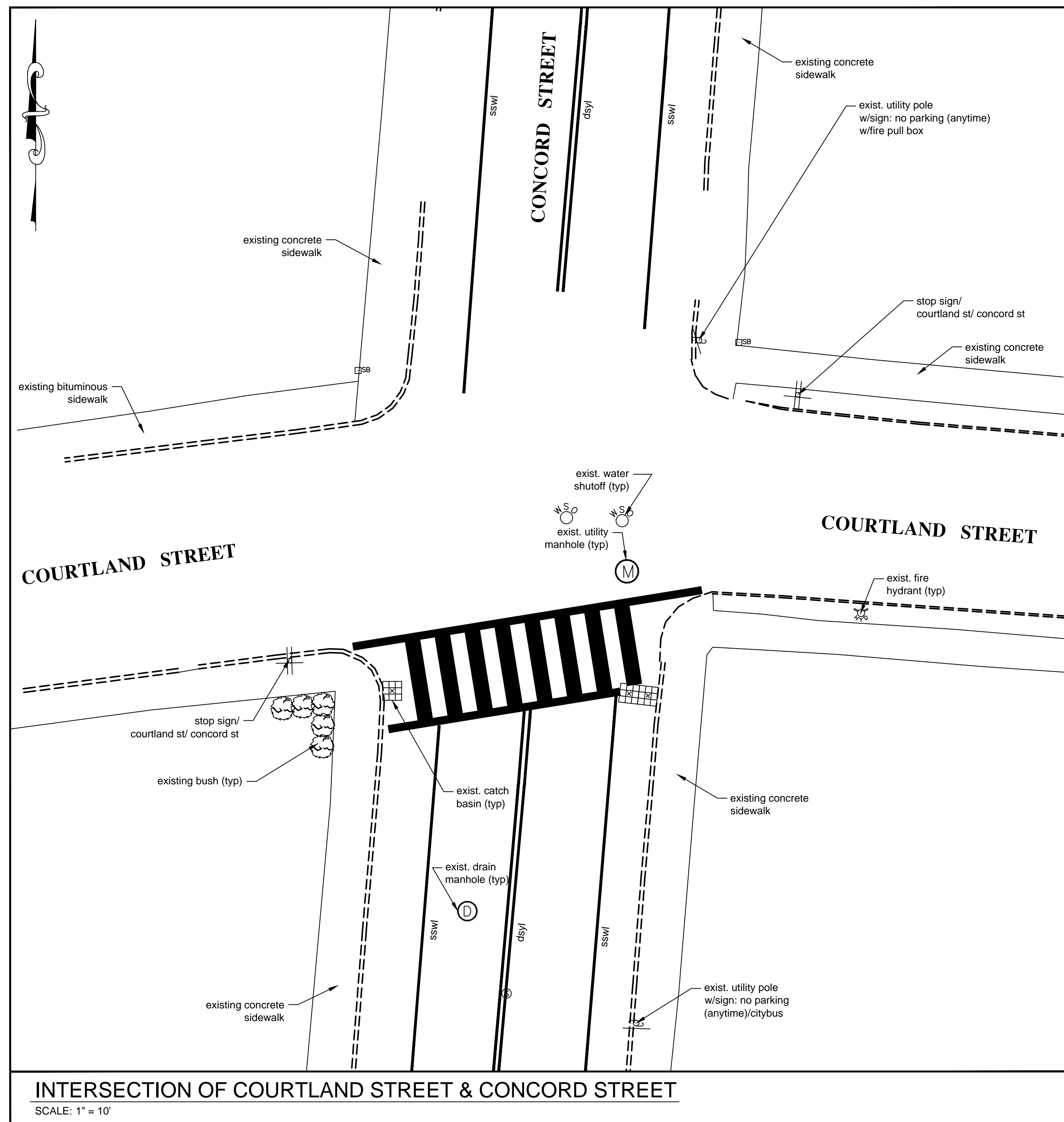
INTERSECTION IMPROVEMENTS OF COURTLAND STREET AT CONCORD STREET, HALL AVENUE AT CONCORD STREET, COLUMBIA AVENUE AT CONCORD STREET AND BARTLETT AVENUE AT CONCORD STREET TO INCREASE SAFETY FOR THE PEDESTRIAN CROSSINGS AT THESE HEAVILY TRAVELED INTERSECTIONS ALONG THE CONCORD STREET CORRIDOR.

PREPARED BY:

CITY OF NASHUA NEW HAMPSHIRE



**CITY ENGINEER'S OFFICE**  
9 RIVERSIDE STREET  
NASHUA, NEW HAMPSHIRE 03062



NOTES:

1. THIS PLAN WAS COMPILED USING FIELD SURVEY OF THE SITE PERFORMED BY CITY OF NASHUA IN 2014.
2. PROJECT CONSTRUCTION NOT GOVERNED BY THE CITY OF NASHUA STANDARD SPECIFICATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NHDOT STANDARD SPECIFICATIONS DATED 2010, CURRENT "STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION" AND SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS
3. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. DAMAGE CAUSED BY THE CONTRACTOR'S OPERATION WILL BE PROMPTLY REPAIRED WITH ALL ADDITIONAL COST BORNE BY THE CONTRACTOR AND THE SATISFACTION OF THE CITY AND ENGINEER.
4. LOCATION AND SIZE OF EXISTING PIPES AND OTHER UNDERGROUND UTILITIES ARE NOT WARRANTED TO BE EXACT OR COMPLETE.
5. THE CITY OF NASHUA (PUBLIC WORKS/TRAFFIC/POLICE) SHALL BE NOTIFIED PRIOR TO ANY WORK REQUIRING

TRAFFIC IMPEDANCE, ROADWAY, SEWER OR DRAINAGE STRUCTURE DISTURBANCE. CONSTRUCTION MAY ONLY BEGIN AFTER AUTHORIZATION FROM THE APPROPRIATE CITY DEPARTMENT.

6. THE ENGINEER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION IF THERE ARE ANY DISCREPANCIES IN PLANS OR EXISTING DATA. CONSTRUCTION SHALL NOT PROCEED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
7. ALL EROSION CONTROL FACILITIES SHALL BE MAINTAINED AS OFTEN AS REQUIRED BY WEATHER CONDITIONS.
8. THE CONTRACTOR MUST CONTACT DIG SAFE AT 1-888-344-7233 AT LEAST THREE WORKING DAYS (72 HRS) PRIOR TO COMMENCEMENT OF CONSTRUCTION. COORDINATE WITH CITY OF NASHUA PUBLIC WORKS PERSONNEL FOR ADDITIONAL DIG SAFE REQUIREMENTS.
9. STREET RESTORATION IN ACCORDANCE WITH NRO 285-13.



NO.	REVISION DESCRIPTION	DATE



DRAWN BY:	DESIGNED BY:	REVIEWED BY:
T. WATSON	T. WATSON	E. DHIMA

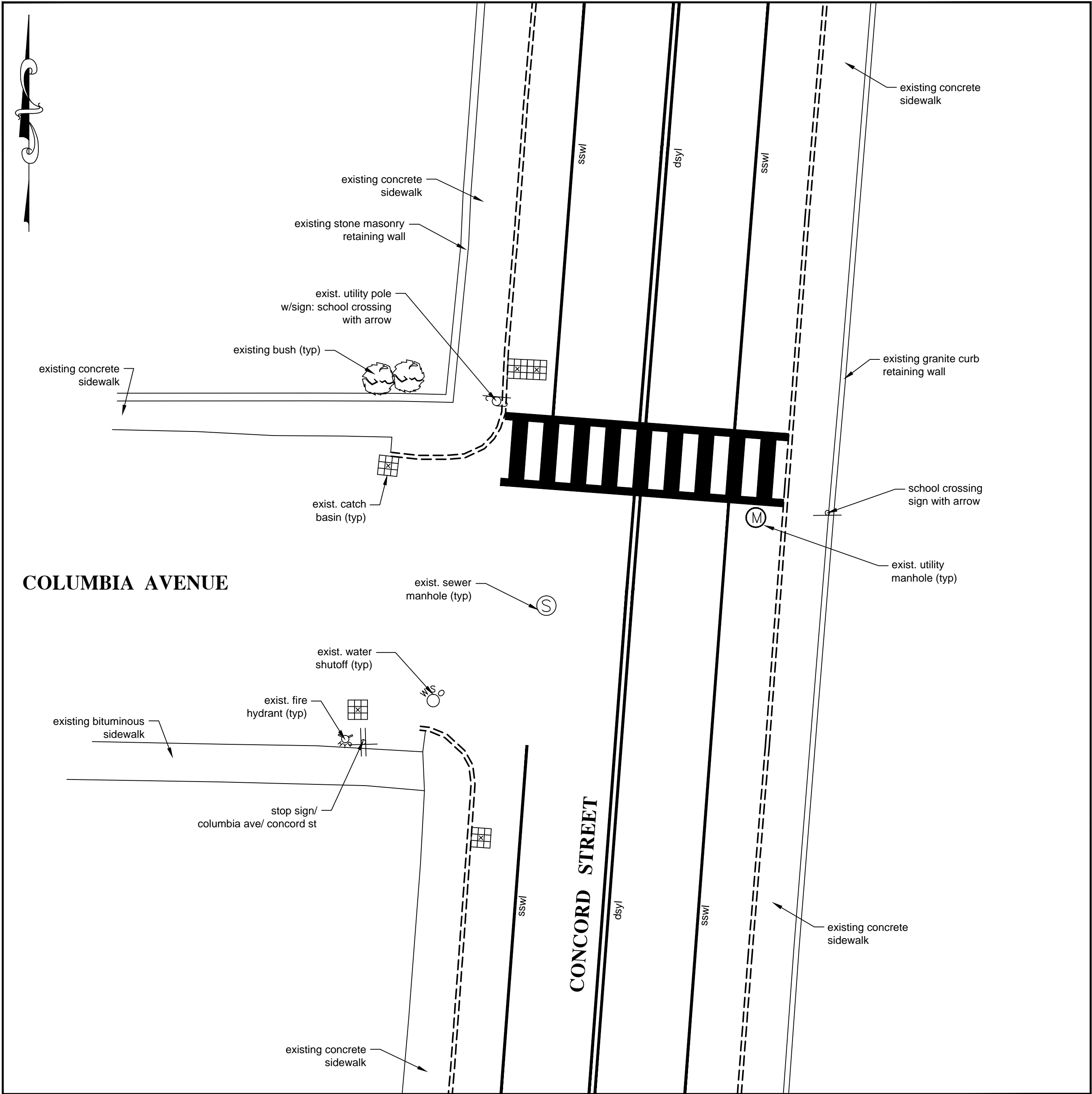
NASHUA, NEW HAMPSHIRE  
PLAN OF  
**CONCORD STREET  
CROSSWALK IMPROVEMENTS**  
EXISTING CONDITIONS PLAN  
DATE: JULY 2014

SHEET

# 2

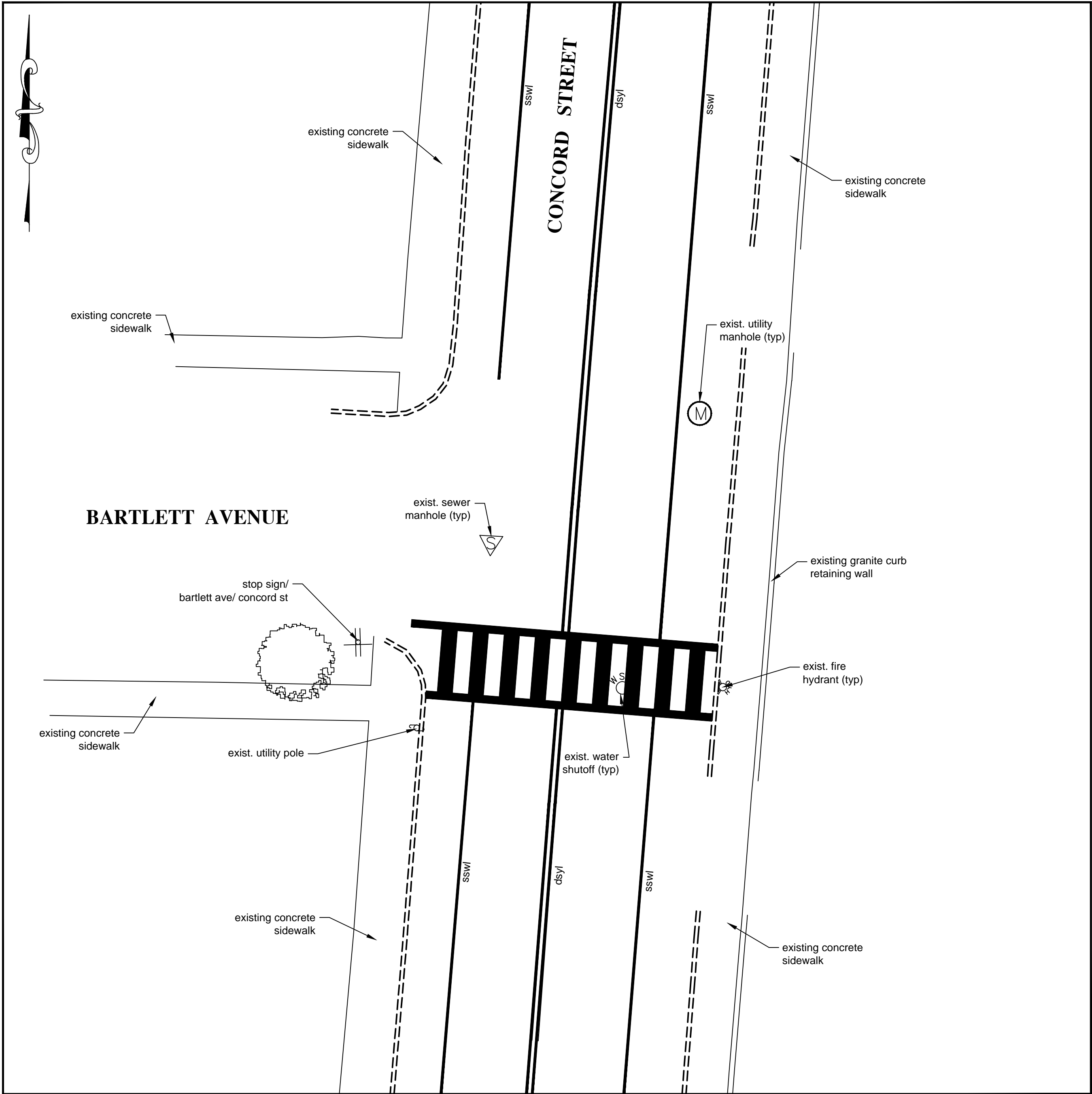
OF 6

PLOTTED: 07/31/14 11:12AM BY: WATSON  
 LAST SAVED: 07/31/14 11:11AM BY: WATSON  
 DRAWING: C:\USERS\WATSON\APPDATA\LOCAL\TEMP\ACPUBLISH\_7960\DESIGN-CONCORD\_CROSSWALKS.DWG [2]



INTERSECTION OF COLUMBIA AVENUE & CONCORD STREET

SCALE: 1" = 10'



INTERSECTION OF BARTLETT STREET & CONCORD STREET

SCALE: 1" = 10'

NOTES:

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- TRAFFIC IMPEDANCE, ROADWAY, SEWER OR DRAINAGE STRUCTURE DISTURBANCE. CONSTRUCTION MAY ONLY BEGIN AFTER AUTHORIZATION FROM THE APPROPRIATE CITY DEPARTMENT.
6. THE ENGINEER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION IF THERE ARE ANY DISCREPANCIES IN PLANS OR EXISTING DATA. CONSTRUCTION SHALL NOT PROCEED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
  7. ALL EROSION CONTROL FACILITIES SHALL BE MAINTAINED AS OFTEN AS REQUIRED BY WEATHER CONDITIONS.
  8. THE CONTRACTOR MUST CONTACT DIG SAFE AT 1-888-344-7233 AT LEAST THREE WORKING DAYS (72 HRS) PRIOR TO COMMENCEMENT OF CONSTRUCTION. COORDINATE WITH CITY OF NASHUA PUBLIC WORKS PERSONNEL FOR ADDITIONAL DIG SAFE REQUIREMENTS.
  9. STREET RESTORATION IN ACCORDANCE WITH NRO 285-13.



CITY OF NASHUA NEW HAMPSHIRE  
CITY ENGINEER'S OFFICE  
9 RIVERSIDE STREET  
NASHUA, NEW HAMPSHIRE 03062

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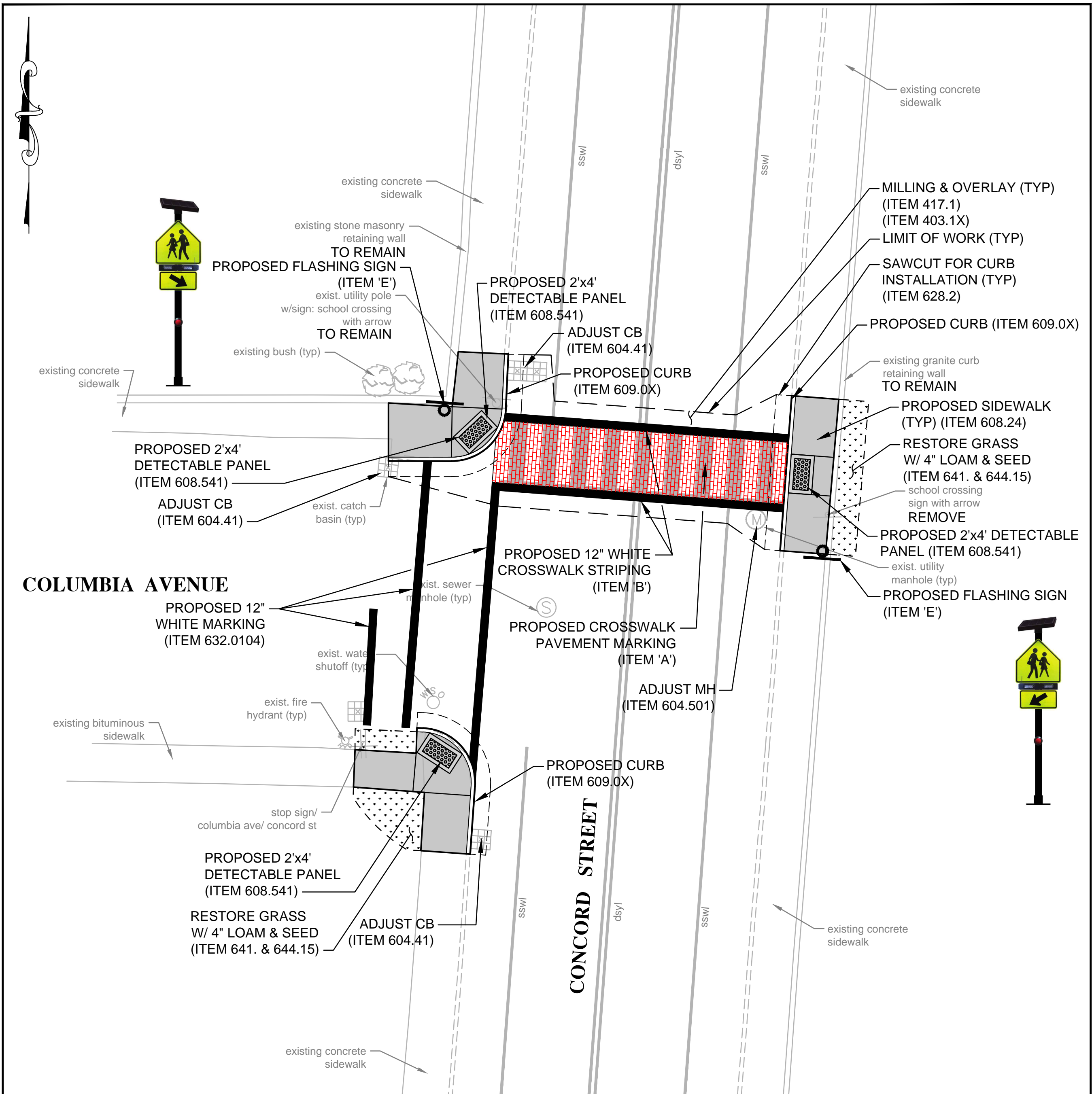


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T. WATSON	T. WATSON	E. DHIMA

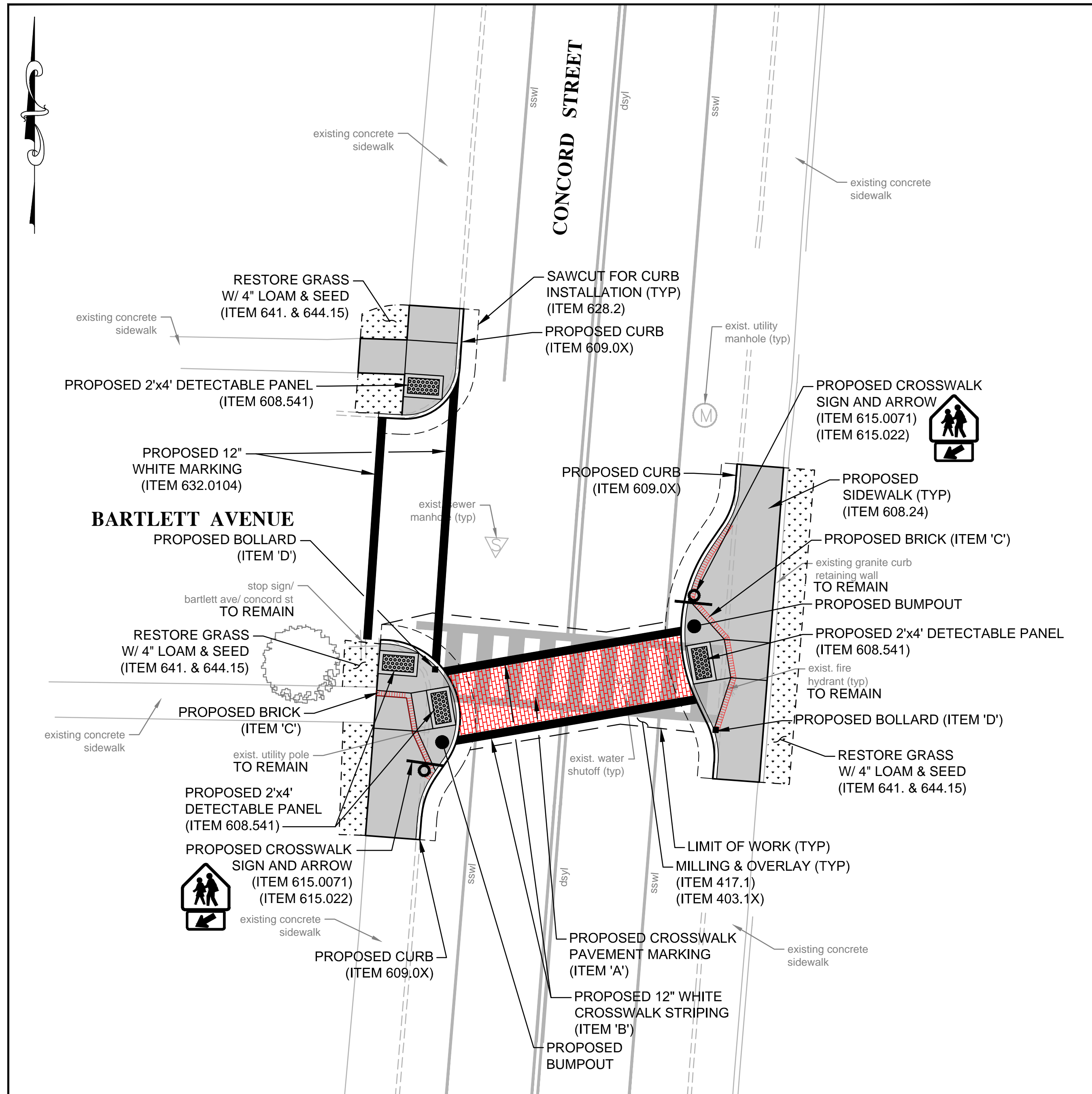
NASHUA, NEW HAMPSHIRE  
PLAN OF  
CONCORD STREET  
CROSSWALK IMPROVEMENTS  
EXISTING CONDITIONS PLAN  
DATE: JULY 2014

SHEET  
**3**  
OF 6





INTERSECTION OF COLUMBIA AVENUE & CONCORD STREET  
SCALE: 1" = 10'



INTERSECTION OF BARTLETT STREET & CONCORD STREET  
SCALE: 1" = 10'

NOTES:

- SITE IMPROVEMENTS SHALL CONFORM TO TITLE III OF THE AMERICANS WITH DISABILITIES ACT.
- IT SHALL BE UNLAWFUL TO MODIFY, CHANGE OR ALTER ANY STRUCTURE SHOWN ON THIS PLAN IN ANY WAY WHATSOEVER, OR CONVERT OR ALTER ANY STRUCTURE WITHOUT RECEIVING APPROVAL FROM THE CITY.
- CONTRACTOR SHALL TRANSPORT ALL EXCESSIVE MATERIAL TO THE CITY OF NASHUA LANDFILL.
- CONTRACTOR SHALL COORDINATE WITH THE NASHUA STREET DEPARTMENT TO TRANSPORT CURBING TO THE STREET DEPARTMENT FACILITY LOCATED AT 9 STADIUM DRIVE.
- 1/2 x 4" JOINT EXPANSION SHALL BE USED AT THE CONSTRUCTION JOINT (SUB TO 608.24).
- CONTRACTOR SHALL INSTALL PINE HALL BRICK 2 1/4" x 4" x 8" ENGLISH EDGE SERIES FULL RANGE. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
- PIPE WORK WITHIN CITY'S R.O.W MUST BE DONE BY A CURRENT LICENSED DRAIN LAYER.
- ALL PIPE WORK, STRUCTURES AND SIDEWALK SHALL BE INSTALLED PER CITY OF NASHUA SEWER, DRAINAGE AND ROADWAY REQUIREMENTS.
- STAGING AREA TO BE COORDINATED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION AND APPROVED BY THE CITY.
- GRADING AND CURB REVEAL TO BE DETERMINED & APPROVED PRIOR TO CURB INSTALLATION.



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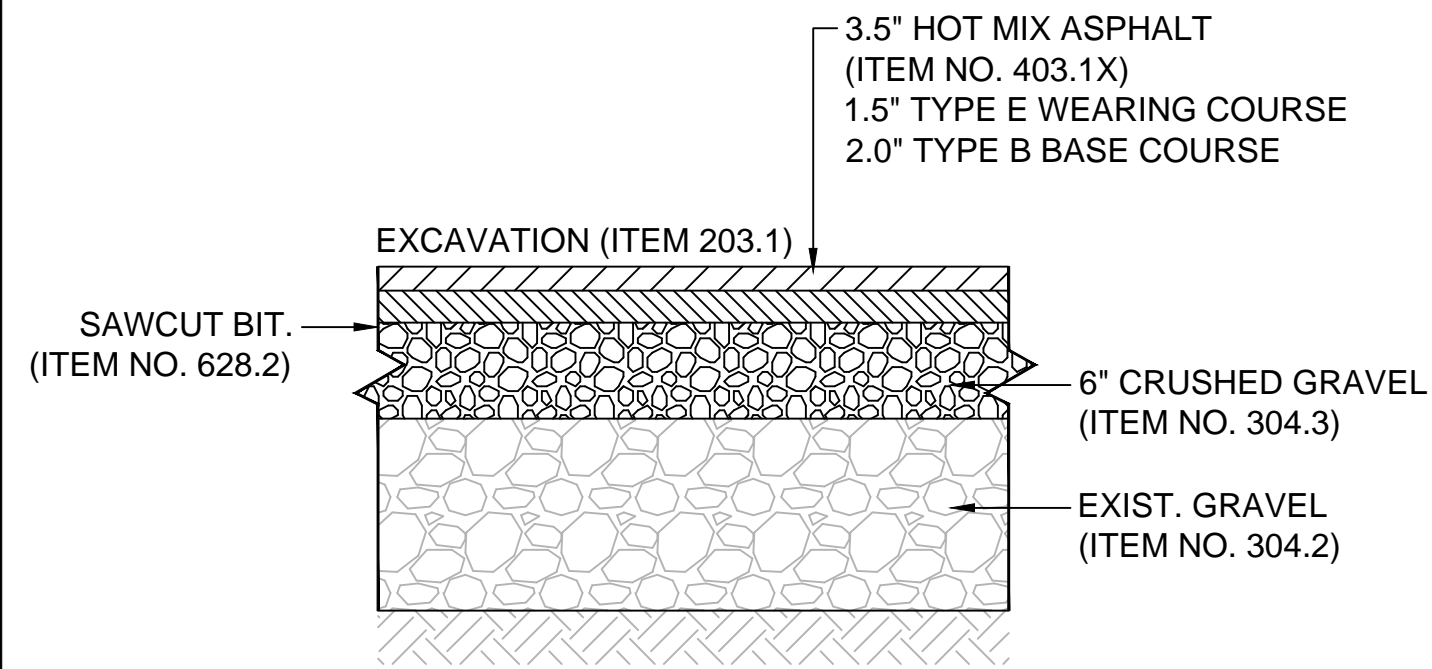
NO.	REVISION DESCRIPTION	DATE



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T. WATSON	T. WATSON	E. DHIMA

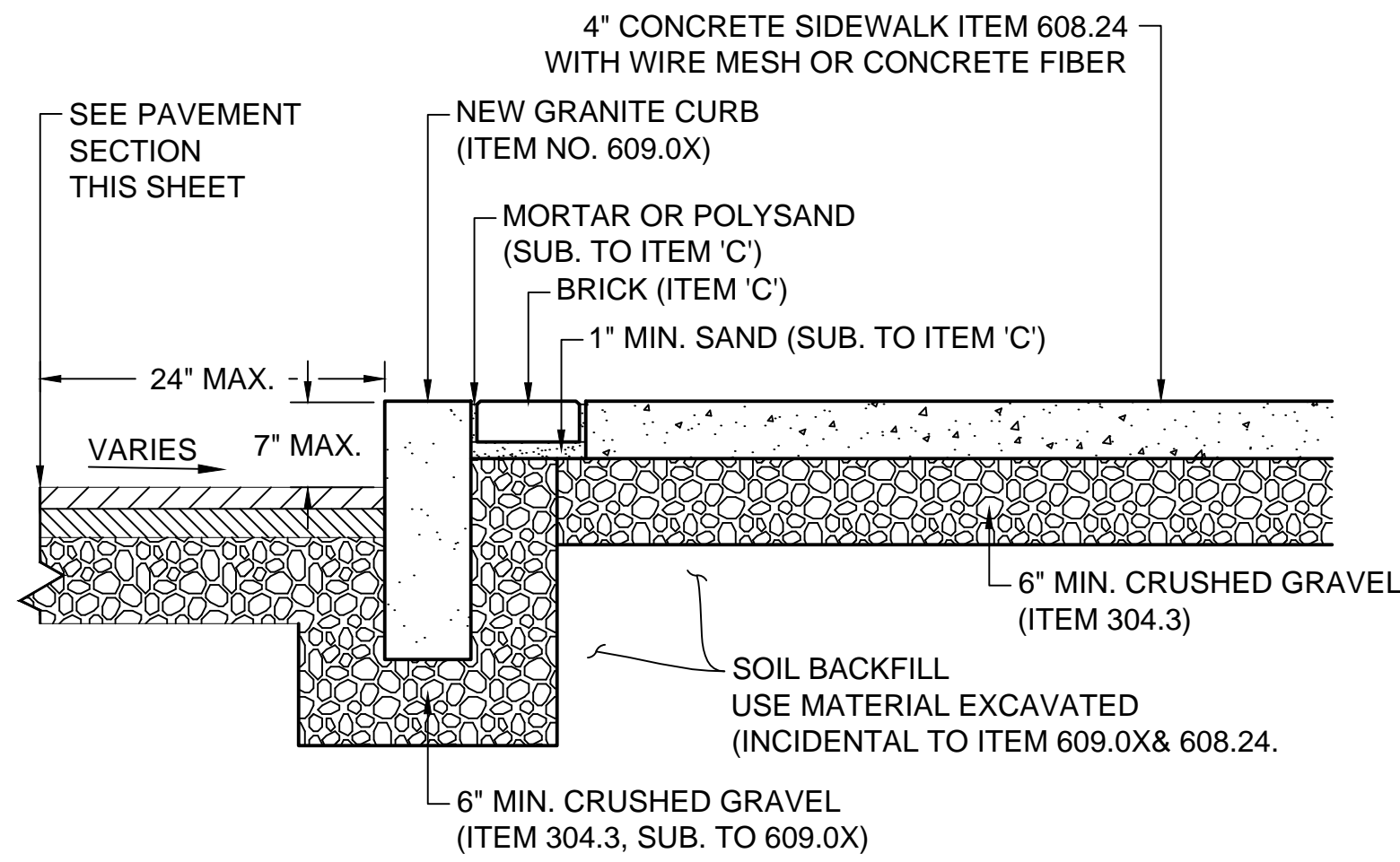
NASHUA, NEW HAMPSHIRE  
PLAN OF  
CONCORD STREET  
CROSSWALK IMPROVEMENTS  
PROPSD WORK  
DATE: JULY 2014

SHEET  
5  
OF 6



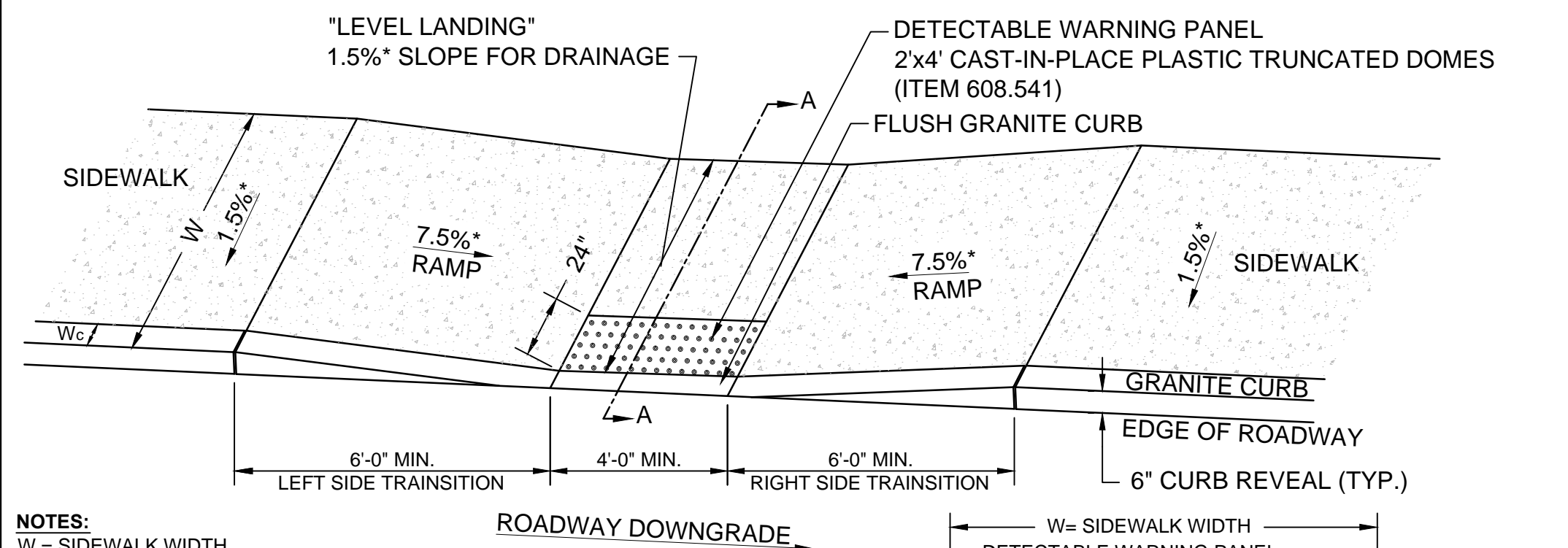
TYPICAL PAVEMENT SECTION

SCALE: 1" = 1'-0"



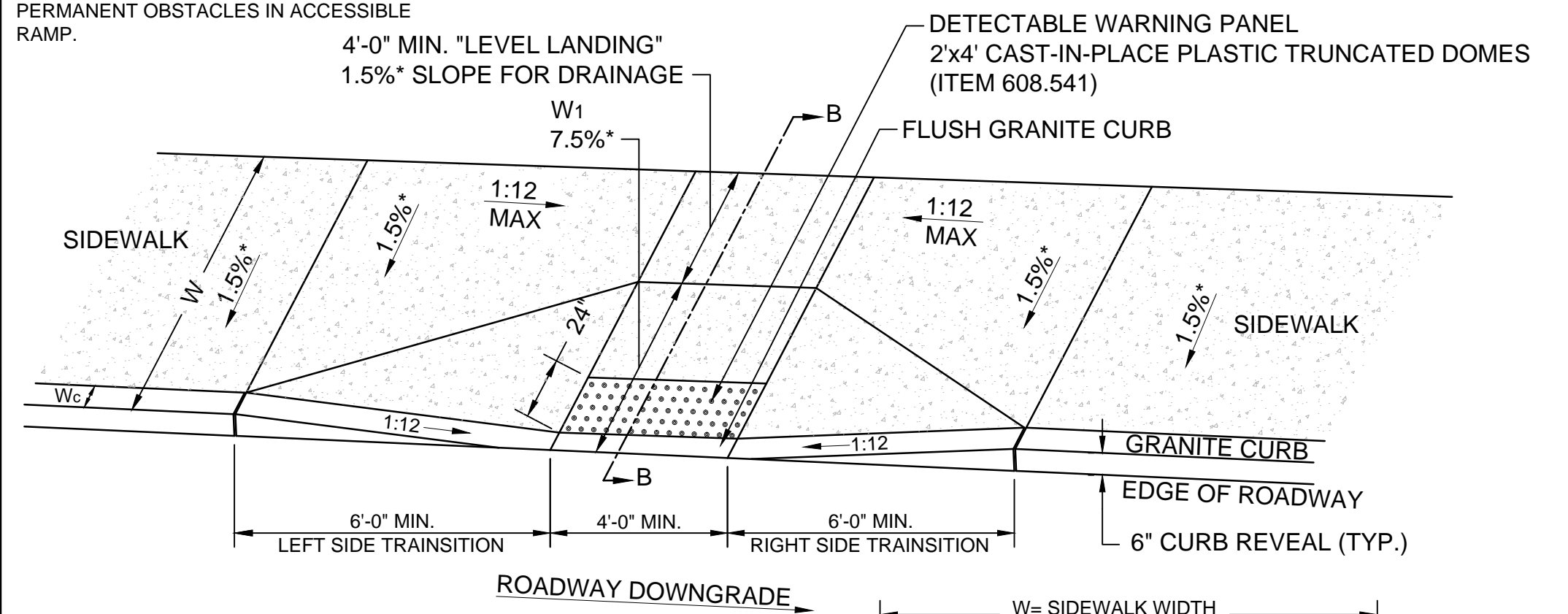
VERTICAL GRANITE CURB, BRICK & SIDEWALK DETAIL

SCALE: 1" = 1'-0"



**NOTES:**  
W = SIDEWALK WIDTH  
W1 = RAMP LENGTH  
Wc = CURB WIDTH  
\* = TOLERANCE FOR CONSTRUCTION ±0.5%  
USABLE SIDEWALK WIDTH PER AAB = W-Wc  
USABLE SIDEWALK WIDTH PER AAB IS NOT TO BE LESS THAN 4'-0"  
RAMP, ADJACENT PAVEMENT AND CURB SHALL BE GRADED TO PREVENT PONDING  
THREE FEET MINIMUM DISTANCE SHALL BE MAINTAINED AT ALL TIMES FROM PERMANENT OBSTACLES IN ACCESSIBLE RAMP.

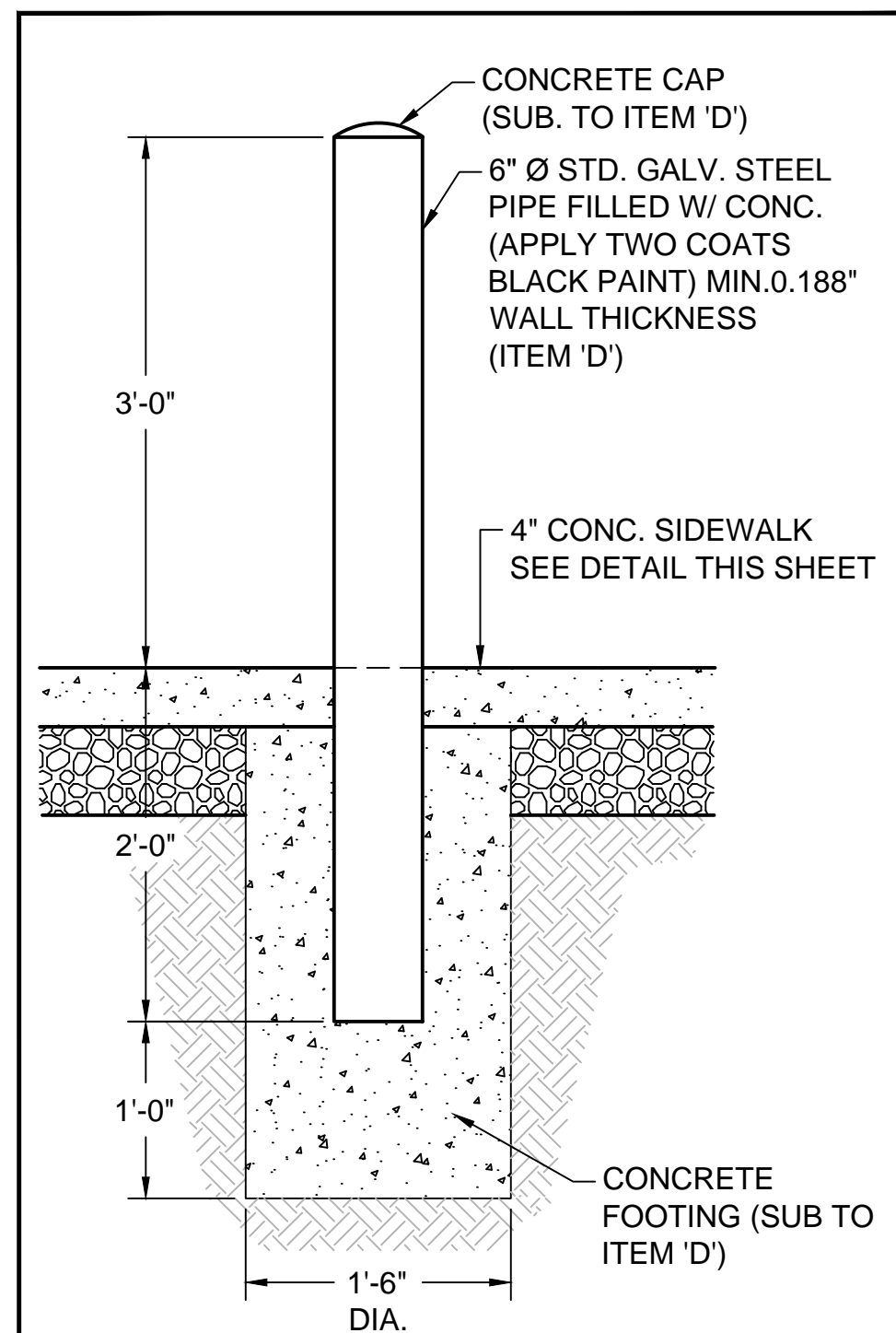
WHEELCHAIR RAMP TYPE A



WHEELCHAIR RAMP TYPE B

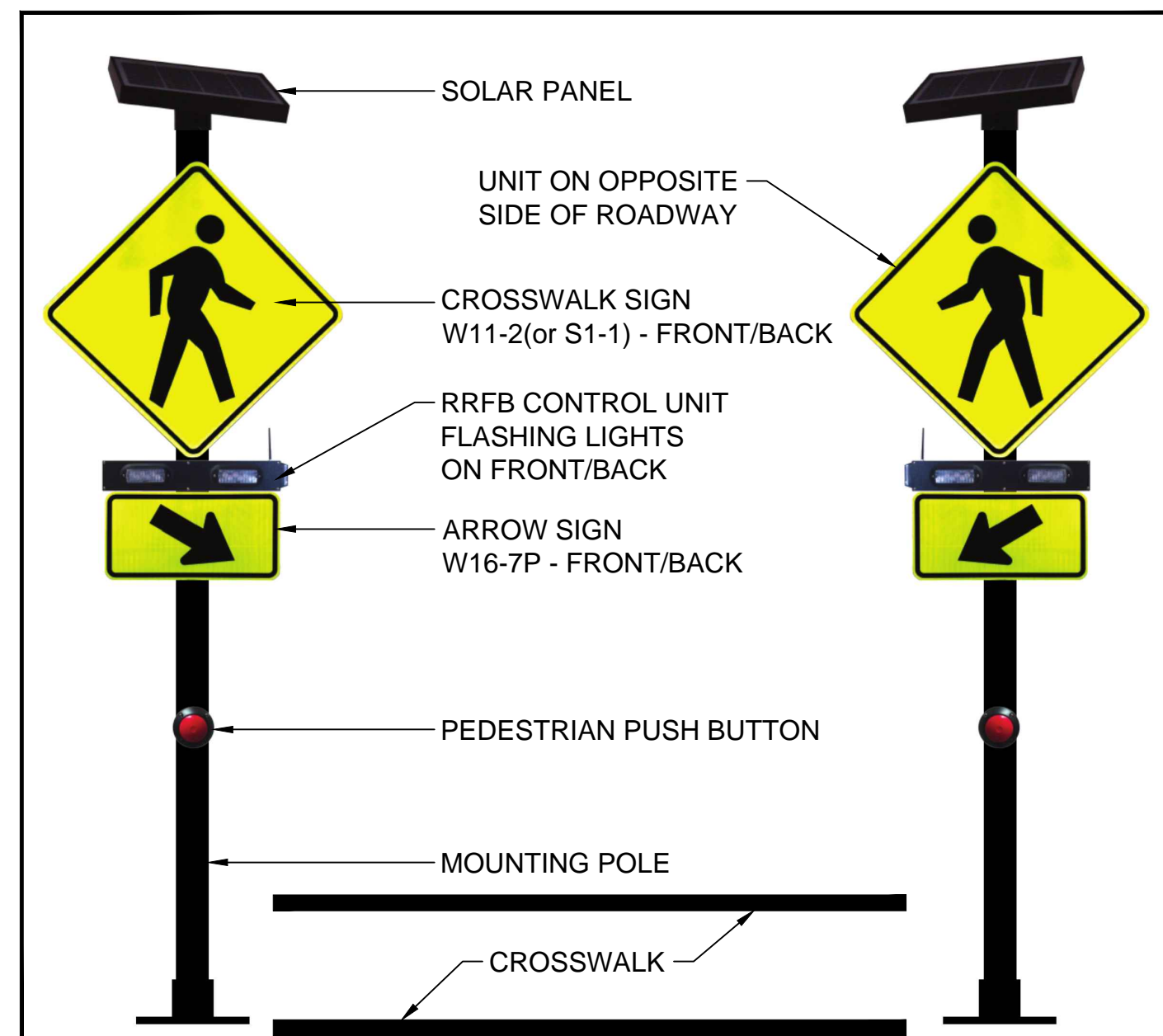
WHEELCHAIR RAMP DETAILS

SCALE: NOT TO SCALE



BOLLARD DETAIL (ITEM 'D')

SCALE: 1" = 1'-0"



RETANGULAR RAPID FLASHING BEACON (RRFB)

SCALE: NOT TO SCALE

NOTES:

1. EXPOSED EARTHWORK SHALL BE CONFINED TO AS LIMITED AN AREA AS IS PRACTICAL AT ANY GIVEN TIME THROUGHOUT THE CONSTRUCTION SEQUENCE. AT NO TIME SHALL MORE THAN ONE HALF ACRE OF SITE AREA BE IN AN UNSTABLE CONDITION. NO GIVEN AREA OF THE SITE SHALL BE LEFT IN AN UNSTABILIZED CONDITION FOR A PERIOD OF TIME EXCEEDING FIVE CALENDAR DAYS.
2. TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH PROJECT PLANS. IN ADDITION, SIMILAR MEASURES SHALL BE INSTALLED WHERE AND WHEN THE FIELD CONDITION, OR FIELD OPERATION OF OF THE INDIVIDUAL SITE CONTRACTOR MAY WARRANT. ALL TEMPORARY EROSION CONTROL MEASURES USED SHALL BE PERIODICALLY INSPECTED, CLEANED AND MAINTAINED AND OTHERWISE KEPT IN AN EFFECTIVE OPERATIONS MANNER THROUGHOUT THE CONSTRUCTION PERIOD.
3. DUST SHALL BE CONTROLLED BY THE USE OF WATER AS NECESSARY THROUGHOUT THE CONSTRUCTION PERIOD.
4. IN NO WAY ARE THOSE TEMPORARY EROSION CONTROL MEASURES INDICATED ON THESE PLANS TO BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR SHALL USE JUDGMENT IN INSTALLING SUPPLEMENTARY EROSION CONTROL MEASURES WHERE AND WHEN SPECIFIC SITE CONDITIONS AND/OR CONSTRUCTION METHODOLOGIES MAY WARRANT.

EROSION CONTROL NOTES

SCALE: NOT TO SCALE



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SCALE AS NOTED

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NASHUA, NEW HAMPSHIRE  
PLAN OF  
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DETAIL SHEET  
DATE: JULY 2014

SHEET  
**6**  
OF 6

11:12AM BY: WATSON  
DRAWN: T. WATSON  
CHECKED: E. DHIMA  
DATE: 07/31/14  
PROJECT: CONCORD STREET CROSSWALK IMPROVEMENTS  
SHEET: 6 OF 6